

DERWENT-ACC-NO: 2001-183493

DERWENT-WEEK: 200119

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TITLE: Wear resistant brick preparation, by  
sintering brown corundum, silicon carbide, alumina  
and saturated aqueous solution of aluminum phosphate

INVENTOR: CAO, S; CHEN, B ; CHEN, X

PATENT-ASSIGNEE: ZICHUAN METALLURGICAL BUILDING  
MATERIALS[ZICHN]

PRIORITY-DATA: 1999CN-0112191 (April 27, 1999)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
CN 1271704 A		November 1, 2000	N/A
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
CN 1271704A	N/A	
1999CN-0112191	April 27, 1999	

INT-CL (IPC): C04B035/10, C04B035/565

ABSTRACTED-PUB-NO: CN 1271704A

BASIC-ABSTRACT:

NOVELTY - An antiwear silicon carbide-brown corundum brick is made of brown corundum (1-3 mm grain size) 33-37 wt.%, brown corundum (less than 1.2 mm) 12-17 wt.%, silicon carbide (less than 0.088) 20-24 wt.%, Al<sub>2</sub>O<sub>3</sub> (1-5mm) 7-11 wt.%, Al<sub>2</sub>O<sub>3</sub> (0.088 mm) 16-20 wt.% and saturated aqueous solution of aluminum

phosphate (6-8% of solid material). It is prepared by  
sintering at 650-700  
deg. C.

ADVANTAGE - High refractory performance, high thermal  
vibration stability, and  
high chemical corrosion, compression and wear resistance.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: WEAR RESISTANCE BRICK PREPARATION SINTER BROWN  
CORUNDUM SILICON

CARBIDE ALUMINA SATURATE AQUEOUS SOLUTION  
PHOSPHATE

DERWENT-CLASS: L02

CPI-CODES: L02-A04; L02-E05; L02-E09; L02-F03; L02-F04;  
L02-J02C;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-054890